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Application Serial No.: 10/619,567

Yasuji HIRAMATSU, et al.

REMARKS

Favorable consideration of this application as presently amended is respectfully

requested.

Claims 5-19 are presently active in this case. Claims 1-4 have been canceled without

prejudice or disclaimer and Claims 5-19 are newly added.

The newly added claims are supported by the originally filed specification, including

the written description and the figures, as well as the originally filed claims. The Applicants

submit that no new matter has been entered.

According to the present invention, the ceramic heater comprises a ceramic substrate

having a resistance heating element and a straight notch, as recited in Claim 5.

By way of illustration and not limitation, in a ceramic heater having a ceramic

substrate in a disc form, the ceramic substrate, when it is not fixed, is rotated by an impact

caused by transferring a wafer or cooling of the ceramic substrate. The resistance heating

element is connected to an external terminal and a wiring for power supply. The rotation

may cause a problem that external terminals and wirings are detached. According to the

present invention, the ceramic substrate has a straight notch, which may be formed by cutting

a part of a side face of the ceramic substrate in a straight manner. By contacting the notch

with a rotation-blocking pin, the ceramic substrate can be prevented from rotating. The

above problem is thus solved.

A ceramic substrate with a through hole as shown in Figure 13 or with a notch in a U-

shape, into which a fixing member is fitted, is likely to have a crack caused by a thermal

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stress. For example, as shown in the attached Appendix A, the strength of the portions between the through holes and the side face of the ceramic substrate is low, and fixing of the substrate by the insertion of fixing members may cause a fracture of the substrate in the portions indicated by circles. The ceramic substrate according to the present invention is free from such fractures.

The rejection of the claims in the parent application Ser. No. 10/009,480 under 35 U.S.C. 102(b) as being anticipated by Nobori et al. (U.S. Patent No. 5,616,024) is respectfully traversed.

The ceramic heater according to the Nobori et al. reference includes a ceramic substrate. As shown in Figure 26, a nearly circular-shaped electrode 86 is embedded, and cutouts 86a are formed on the electrode 86. Holes 87 for supporting a long lift pin are bored in the ceramic substrate 72 (column 27, lines 8-18). However, they are not straight notches.

The holes 87 bored in the ceramic substrate 72 are not straight, but rectangular. The Nobori et al. reference fails to disclose straight notches. Therefore, the ceramic heater according to the present invention is different in constitution from the ceramic heater according to the Nobori et al. reference.

Accordingly, the ceramic heater recited in Claim 5 is not anticipated by and not obvious in view of the Nobori et al. reference. Thus, the Applicants submit that Claim 5 is in condition for allowance, and that dependent Claims 6-14 are also allowable.

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Claim 15 is substantially the same as originally filed Claim 4 in independent form.

The Applicants submit that Claim 15 is in condition for allowance, thus the Applicants submit that dependent Claims 16-19 are also allowable.

Accordingly, early and favorable action on the pending claims is respectfully requested.

Respectfully submitted,

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